

1 whoami : To display username.

```
(ayush@kali)-[~]  
$ whoami  
ayush
```

2 hostname : to display hostname.

```
(ayush@kali)-[~]  
$ hostname  
kali
```

3 ls : Display the list of directories.

```
(ayush@kali)-[/home/stranger]  
$ ls  
Desktop    Downloads  Pictures   Pyrit      Videos  
Documents  Music      Public     Templates
```

4 ls -al : List of all directories including the hidden files and other details.

```
(ayush@kali)-[/home/stranger]  
$ ls -al  
total 140  
drwxr-xr-x 17 stranger stranger 4096 Oct  7 10:14 .  
drwxr-xr-x  5 root    root    4096 Oct  5 13:14 ..  
-rw-r--r--  1 stranger stranger  220 Oct  5 17:44 .bash_logout  
-rw-r--r--  1 stranger stranger 5551 Oct  5 17:44 .bashrc  
-rw-r--r--  1 stranger stranger 3526 Oct  5 17:44 .bashrc.original  
drwxr-xr-x  9 stranger stranger 4096 Oct  7 01:13 .cache  
drwxr-xr-x 11 stranger stranger 4096 Oct  5 18:33 .config  
drwxr-xr-x  2 stranger stranger 4096 Oct  5 18:33 Desktop  
-rw-r--r--  1 stranger stranger   35 Oct  5 18:33 .dmrc  
drwxr-xr-x  2 stranger stranger 4096 Oct  5 18:33 Documents  
drwxr-xr-x  2 stranger stranger 4096 Oct  5 18:33 Downloads  
-rw-r--r--  1 stranger stranger 11759 Oct  5 17:44 .face  
lrwxrwxrwx  1 stranger stranger    5 Oct  5 17:44 .face.icon → .face  
drwx----- 3 stranger stranger 4096 Oct  5 18:33 .gnupg  
-rw-----  1 stranger stranger    0 Oct  5 18:33 .ICEauthority  
drwxr-xr-x  3 stranger stranger 4096 Oct  5 17:44 .java  
drwxr-xr-x  3 stranger stranger 4096 Oct  5 18:33 .local  
drwx----- 5 stranger stranger 4096 Oct  5 18:34 .mozilla  
drwxr-xr-x  2 stranger stranger 4096 Oct  5 18:33 Music  
drwxr-xr-x  2 stranger stranger 4096 Oct  5 18:33 Pictures  
-rw-r--r--  1 stranger stranger  807 Oct  5 17:44 .profile  
drwxr-xr-x  2 stranger stranger 4096 Oct  5 18:33 Public  
drwxr-xr-x  6 stranger stranger 4096 Oct  7 01:14 Pyrit  
-rw-r--r--  1 stranger stranger    0 Oct  5 18:35 .sudo_as_admin_successful  
drwxr-xr-x  2 stranger stranger 4096 Oct  5 18:33 Templates  
drwxr-xr-x  2 stranger stranger 4096 Oct  5 18:33 Videos  
-rw-----  1 stranger stranger   49 Oct  7 10:14 .Xauthority  
-rw-----  1 stranger stranger 6360 Oct  7 10:16 .xsession-errors  
-rw-----  1 stranger stranger 6222 Oct  7 01:21 .xsession-errors.old  
-rw-----  1 stranger stranger  582 Oct  7 01:21 .zsh_history  
-rw-r--r--  1 stranger stranger 10877 Oct  5 17:44 .zshrc
```

5 pwd : Display the current working directory

```
(ayush@kali)-[/home/stranger]
$ pwd
/home/stranger
```

6 cd<directory name> : To access the directory.

```
(ayush@kali)-[/home/stranger]
$ cd Downloads/

(ayush@kali)-[/home/stranger/Downloads]
$
```

7 cd .. : To go back to the previous directory.

```
(ayush@kali)-[/home/stranger/Downloads]
$ cd ..

(ayush@kali)-[/home/stranger]
$
```

8 touch<filename> : To create a file.

```
(ayush@kali)-[~/OSLab]
$ touch text.txt

(ayush@kali)-[~/OSLab]
$ ls
text.txt
```

9 vi/nano <filename> : Creates a file and open in write mode.

```
(ayush@kali)-[~/OSLab]
$ vim text.txt
```

```
hello world
~
~
~
~
-- INSERT -- 1,12 All
```

10 cat<filename> : Displays the content in the file.

```
(ayush@kali)-[~/OSLab]
$ cat text.txt
hello world
```

11 mkdir <dirname> : Creates a directory.

```
(ayush@kali)-[~/OSLab]
$ mkdir sampleDir

(ayush@kali)-[~/OSLab]
$ ls
sampleDir  text.txt
```

12 mkdir -v <dirname> : Creates a directory and displays the status.

```
(ayush@kali)-[~/OSLab]
$ mkdir -v sampleDir2
mkdir: created directory 'sampleDir2'
```

13 mkdir -p <dirname1/dirname2> : Creates a directory within a directory

```
(ayush@kali)-[~/OSLab]
$ mkdir -p a1/a2/a3/a4

(ayush@kali)-[~/OSLab]
$ ls . a1 a1/a2 a1/a2/a3
.:
a1 sampleDir sampleDir2 text.txt
a1: File System
a2
a1/a2:
a3
a1/a2/a3:
a4
```

14 rm <filename> : To remove/delete a file.

```
(ayush@kali)-[~/OSLab]
$ ls
a1 sampleDir sampleDir2 text.txt

(ayush@kali)-[~/OSLab]
$ rm text.txt

(ayush@kali)-[~/OSLab]
$ ls
a1 sampleDir sampleDir2
```

15 rm -rf <filename> : To remove a Directory from system forcefully, -r = Recursive, -f = forcefully.

```
(ayush@kali)-[~/OSLab]
$ ls
a1 b1 sampleDir sampleDir2 text.txt

(ayush@kali)-[~/OSLab]
$ rm -rf b1

(ayush@kali)-[~/OSLab]
$ ls
a1 sampleDir sampleDir2 text.txt
```

16 rmdir <dirname> : To remove or delete a directory.

```
(ayush@kali)-[~/OSLab]
$ ls
a1 sampleDir sampleDir2

(ayush@kali)-[~/OSLab]
$ rmdir sampleDir2

(ayush@kali)-[~/OSLab]
$ ls
a1 sampleDir
```

17 mv <filename> <path> : To move a directory to a specified path.

```
(ayush@kali)-[~/OSLab]
$ mv a1 sampleDir

(ayush@kali)-[~/OSLab]
$ ls
sampleDir

(ayush@kali)-[~/OSLab]
$ ls sampleDir/
a1
```

18 mv <filename> <filename> :To rename a file.

```
(ayush@kali)-[~/OSLab]
$ ls
sampleDir

(ayush@kali)-[~/OSLab]
$ mv sampleDir Dir_0

(ayush@kali)-[~/OSLab]
$ ls
Dir_0
```

19 cp <source> <destination> : To copy the content of the file to a new/existing file.

```
(ayush@kali)-[~/OSLab]
$ ls
Dir_0 file_0.txt

(ayush@kali)-[~/OSLab]
$ cat file_0.txt
Hello World

(ayush@kali)-[~/OSLab]
$ cp file_0.txt file_1.txt

(ayush@kali)-[~/OSLab]
$ ls
Dir_0 file_0.txt file_1.txt

(ayush@kali)-[~/OSLab]
$ cat file_1.txt
Hello World
```

20 cp -v : Shows the execution and details of command.

```
(ayush@kali)-[~/OSLab]
$ cat file_1.txt
Hello World

(ayush@kali)-[~/OSLab]
$ cp -v file_1.txt Dir_0/
'file_1.txt' → 'Dir_0/file_1.txt'
```

21 cat -n : Shows the number with each line in a file.

```
(ayush@kali)-[~/OSLab]
$ nano file_1.txt
```



The screenshot shows the nano editor interface for file_1.txt. The content of the file is: Hello World!!, followed by a line of dots, then Welcome To Linux, followed by another line of dots. The bottom status bar shows various keyboard shortcuts: ^G Help, ^O Write Out, ^W Where Is It, ^K Cut, ^X Exit, ^R Read From File, ^\ Replace, and ^U Paste.

```
(ayush@kali)-[~/OSLab]
$ cat -n file_1.txt
 1 Hello World!!
 2 .....
 3 Welcome
 4 To
 5 Linux
 6 .....
```

22 tac : Shows the content of a file in a reverse order.

```
(ayush@kali)-[~/OSLab]
$ tac file_1.txt
.....
Linux
To
Welcome
.....
Hello World!!
```

23 cat <file1> >> <file2> : Combine the content of both files in file2.

```
(ayush@kali)-[~/OSLab]
$ cat file_0.txt >> file_1.txt

(ayush@kali)-[~/OSLab]
$ cat file_1.txt
Hello World!!
.....
Welcome
To
Linux
.....
Hello World
```